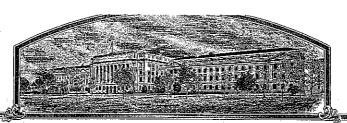
No.



200300017

THE UNITED STATES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Jechnology TEC

DUCCES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FIES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT, FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, A CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT POPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR ENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'SN71173'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Hunt Bariety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and three.

Mark Werneling Aling Commissioner

Plant Variety Protection Office Agricultural Marketing Service Intereman

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER	Monsanto Technology LLC			2. TEMPORARY DESIGNATION EXPERIMENTAL NAME DAK2501A0		VARIETY NAME SN71173
4. ADDRESS (Street and No	o., or R.F.D. No., City, State, and ZIP Code, and Col	untry)		5. TELEPHONE (include a	rea code)	FOR OFFICIAL USE ONLY
V ^{or}	634 E. Lincoln Way			515-232-717	0 9 ~v	nvota a a a a
1 ×800	Ames, IA 50010			6. FAX (include area code)	3,23	A CO TO TO TO TO B
		÷	·	515-232-690	5 FIL	NG DATE
7. IF THE OWNER NAMED I ORGANIZATION (corpora	IS NOT A "PERSON", GIVE FORM OF tion, partnership, association, etc.)	8. IF INCORPORA STATE OF INCO	TED, GIVE DRPORATION	9. DATE OF INCORPORATIO	N	10/30/02
Limited	Liability Company				- Intercent	· · · · · · · · · · · · · · · · · · ·
. 10. NAME AND ADDRESS	OF OWNER REPRESENTATIVE(S) TO SERVE IN	THIS APPLICATION. (F	First person listed will	l receive all papers)	1	FILING AND EXAMINATION FEES:
Donald	Steffen					:2,765.
	Lincoln Way				F	
Ames, I	A 50010	ta filosofie			Č	DATE 10 30 07
			* .		¥	CERTIFICATION FEE:
	with the			•	2	: 432.00
•						DATE 9/12/2003
11. TELEPHONE (Include	area code) 12. FAX (Include area code)	13. E-l	MAIL	•.	14. CROP KII	ID (Common Name)
515-956-30		dona	ıld.e.steffen@	monsanto.com	Soy	bean
18. CHECK APPROPRIATE I	BOX FOR EACH ATTACHMENT SUBMITTED (Folio	ow instructions on	19. DOES THE O	OWNER SPECIFY THAT SEED OF SEED? See Section 83(a) of to		
a. 🗹 Exhibit A. Orig	in and Breeding History of the Variety		☐ YE	S (If "yes", answer items 20	MO (f "no," go to item 22)
b. 🗹 Exhibit B. Stat	ement of Distinctness			and 21 below) WNER SPECIFY THAT SEED OI	FTHIS	YES NO
c. 🗹 Exhibit C. Obje	ective Description of Variety			LIMITED AS TO NUMBER OF CL		I NO
d. 🗹 Exhibit D. Add	itional Description of the Variety (Optional)		IF YES, WHIC	CHICLASSES? FOUNDAT	ION REGI	STERED CERTIFIED
_	ement of the Basis of the Owner's Ownership		24 DOESTHE O	WNER SPECIFY THAT THE CLA	VGGEG BE	
f. ☑ Voucher Sampl verification that repository)	le (2,500 viable untreated seeds or, for tuber propag tissue culture will be depositied and maintained in a	nated varieties, in approved public		TO NUMBER OF GENERATIONS		YES NO
g. Filing and Exan States" (Mail to	nination Fee (\$2,450), made payable to "Treasurer of the Plant Variety Protection Office)	of the United	IF YES, SPEC NUMBER 1, 2		ON L REG	CERTIFIED CERTIFIED
			(If additional e	explanation is necessary, please u	ise the space indi	cated on the reverse.)
FROM THIS VARIETY BE	LUDING ANY HARVESTED MATERIAL) OR A HYBI EN SOLD, DISPOSED OF, TRANSFERRED, OR U			ETY OR ANY COMPONENT OF TRIGHT (PLANT BREEDER'S RIGI	HT OR PATENT)	7
OTHER COUNTRIES?	∀ MO		▼ YES	3	NO P	er applicant's request
IF YES, YOU MUST PRO FOR EACH COUNTRY A	NO NIDE THE DATE OF FIRST SALE, DISPOSITION, ND THE CIRCUMSTANCES. (Please use space in	TRANSFER, OR USE dicated on reverse.)	IF YES, GIVE REFERENCE	COUNTRY, DATE OF FILING OF NUMBER. (Please use space inc	R ISSUANCE ANI dicated on reverse	ASSIGNED
24. The owners declare that a	viable sample of basic seed of the variety will be fullety a tissue culture will be deposited in a public re	mished with application	and will be replenish	ed upon request in accordance w	ith such regulation	ns as may be applicable, or
The undersigned owner(s)) is(are) the owner of this sexually reproduced or tub n under the provisions of Section 42 of the Plant Va	postory and maintained to per propagated plant vari	ety, and believe(s) th	nat the variety is new, distinct, uni	form, and stable	as required in Section 42,
	n under the provisions of Section 42 of the Plant Va that false representation herein can jeopardize prot			entra de la companya		
SIGNATURE OF OWNER		•	SIGNATURE OF	OWNER		· · · · · · · · · · · · · · · · · · ·
A to State		· · · · .				
NAME (Please print or type)		· · · · · · · · · · · · · · · · · · ·	NAME (Please pri	int or type)		
Donald Steffen	v					
CAPACITY OR TITLE	DATE		CAPACITY OR TI	TLE		DATE
Oilseeds IP/Re	g. Affairs Manager 15/2	8/2002				
2T_470 (2_00) designed by the	Plant Variety Protection Office with WordPerfect 6.0	a Replaces STD-470 (6	6-98) which is obsole	ete. (See reverse for instru	ctions and inform	ation collection burden statement)

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner, (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filling fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.). Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance. etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by interesting property right, (Plant Breeder's Right or Patent),)
U.S. Patent No. 5, 746,760. Boul date: July 7, 1998. Inventor: Barry, Gerard and Kishore, Ganesh. Assignee:

Monsanto Company. Patent Application No. 484, 274. (BT:11/1/2002, per applicant's request).

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

MONSANTO TECHNOLGY LLC PVP APPLICATION - SN71173

EXHIBIT A

ORIGIN AND BREEDING HISTORY

1996 - Final cross was made in 1996 at Isabela, Puerto Rico.

Parentage: A2553*AGK26602

The source of glyphosate tolerance is AGK26602 = 2250/4/A4539/3/A3431*2//A3242/40-3-2.

2250 is a commercial variety sold by Stine Seed Co.

- 1996 F1 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1997 F2 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1997 F3 bulk populations were grown at Ames, Iowa and single plants pulled.
- 1998 F3 derived F4 plants were grown at Ames, Iowa in progeny rows and variety SN71173 was selected.
- 1999 F3:5 breeder seed was grown at Ames, Iowa for progeny row increase and in yield tests at 6 locations in Iowa

Variety SN71173 was observed to be uniform and stable for the characteristics described within this application based on our observations since 1999 and, henceforth, to present. No variants were observed during this time.

Variety SN71173 has continued to be grown in yield tests at 12 locations in 2000 and 20 locations in 2001 for comparison against other varieties to determine how it would be used in our marketing program.

MONSANTO TECHNOLGY LLC PVP APPLICATION - **SN71173**

EXHIBIT B

NOVELTY STATEMENT

To our knowledge, the soybean varieties that closely resemble SN71173 are SN82691, and 0322584:

1. Pod wall color	SN71173	- Tan	
•	SN82691	- Tan	
	0322584	- Brown	
		2001	2002
2. Plant Height	SN71173	- 77.5 cm	- 72.1 cm
(Data taken from 2001 & 2002)	SN82691	- 87.1 cm	- 80.3 cm
	0322584	- 82.8 cm	- 76.4 cm
Mean		- 83.6 cm	- 77.2 cm
LSD @	0.05	- 3.0 cm	- 3.0 cm
# Loca	tions	- 23	- 21
3. PRR Gene	SN71173	- Rps1k	•
(Tolerance to Phytophthora Root Rot)	SN82691	- Rps1k	
,	0322584	Rpclc	

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	Monsanto Technology	LLC		FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or	R.F.D. No., City, State, and ZIP Code)		·	~2~0~0 3 0 0 0 1 7
	634 E. LincolnWay Ames, IA 50010			VARIETY NAME SN71173
				TEMPORARY OR EXPERIMENTAL DESIGNATION DAK2501A0R
PLEASE READ ALL IN	STRUCTIONS CAREFULLY: Place the a	ppropriate number that desc	ribes the varietal characte	er of this variety in the boxes below.
Place a zero in the first be	ox (e.g. 099 or 09) when nu	umber is either 99 or less or 9	or less respectively. Data	for quantitative
plant characters should be	e based on a minimum of 100 plants. Com	parative data should be deter	mined from varieties ente	ered in the same trial. Royal
Horticultural Society or a	ny recognized color standard may be used	to determine plant colors; des	ignate system used:	
Please answer all question	s for your variety; lack of response may de	elay progress of your applicat	ion.	
A. MORPHOLOG	GY			
Seed Shape:				
3 = Elo	L/T, and T/W ratios < 1.2)	(L/W ratio > 1 4 = Elongate-F	cal-Flattened .2; L/T ratio < 1.2 lattened 2;T/W ratio > 1.2	
eed Coat Color:				
1 = Yel	low 2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
eed Coat Luster:				
1 1 = Du	ll 2 = Shiny			
eed Size:				
1 5 gra	ams/100 seeds			.3
lilum Color:				
6 1 = But 6 = Bla		3 = Brown se Specify)	4 = Gray	5 = Imperfect Black
otyledon Color:	-		-	

A. MORPHOLOGY (Continued)

Seed Protein Peroxidase Activity:

200300017

Hypocotyl Color:

1 = Green
'Evans' or 'Davis'

2 = Green with Bronze Bands below Cotyledon 'Woodworth' or 'Tracy'

3 = Light Purple 4 below Cotyledons 'Beeson' or 'Pickett 71'

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

3 1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (*Please Specify*)

Flower Color:

2 1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 1 = Tan

2 = Brown

3 = Black

Pubescence Color:

2 1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

3

1 = Determinate 2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

0 5

1 = 000 6 = III 11 = VIII 2 = 00 7 = IV 12 = IX 3 = 08 = V13 = X

4 = I 9 = VI 5 = II 10 = VII

 $14 = XI \qquad 15 = XII$

Maturity Subgroup:

4

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

0

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

0

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

0

Brown Spot (Septoria glycines Hemmi)

В.	D	ISEASE REAC	TION	S (Continue	ed) =	0 = Not Tested	1	= Susceptible	2 = Resistant	3 = Tolerant
		Frogeye Lea	f Spot	(Cercospore	a sojina]	Hara)				
	0	race 1			0	race 2		0 race	3	0 race 4
	0	race 5			0	race 6		Othe	r (<i>Please Specify</i>)	
	0	Target Spot ((Coryn	espora cass	iicola (B	erk. & Curt.) V	Vei)			
	0	Downey Mild	lew (<i>P</i>	Peronospora	trifolior	um var. manch	urica (I	Naum.) Syd. ex (Gäum) 2 (1	0300017
	0	Powdery Mil	dew (/	Microsphaei	ra diffusi	7 Cke. & Pk.)			aper **	, -
	2	Brown Stem	Rot (F	Phialophora	gregata	(Allington & C	hamber	lain) W. Gams.)		
	0	Stem Canker	(Diap	orthe phase	olorum (Cke. & Ell.) Sa	cc. var.	<i>caulivora</i> Athov	v & Caldwell)	
	0	Pod and Stem	Bligh	rt (<i>Diaporth</i>	e phaseo	lorum (Cke. &	Ell.) Sa	cc. var. <i>sojae</i> (L	ehman) Wehm.)	
	0	Purple Seed S	Stain (Cercospora	kikuchii	(T. Matsu. & T	'omoya:	su) Gardener)		
	0	Rhizoctonia F	Root R	ot (<i>Rhizocto</i>	onia sola	ni Kühn)				
Phy	top	hthora Root Re	ot (<i>Ph</i> j	ytophthora i	negaspe	rma Drechs. f. s	p. <i>glyci</i>	nea (Kuan & Er	win))	
	2	race 1	2	race 8	2	race 15	2	race 22		
	2	race 2	2	race 9	1	race 16	2	race 23	•	
_	2	race 3	2	race 10	2	race 17	2	race 24		
	2	race 4	2	race 11	2	race 18	1	race 25		
	2	race 5	1	race 12	1	race 19	2	race 26	*.	*
	2	race 6	2	race 13	1	race 20	0	Other (<i>Please</i> .	Specify) :	
	2	race 7	2	race 14	2	race 21		····	************************************	
	0	Bud Blight (To	obacco	Ringspot \	Virus)					
	0	Yellow Mosaid	: (Bea	n Yellow M	osaic Vi	rus)				
	0	Cowpea Mosa	ic (Co	wpea Chlor	otic Vir	us)				
	<u> </u>	Pod Mottle (Bo	ean Po	od Mottle V	irus)					

B. Di	SEASE REACTIONS	S (Contin	ued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Seed Mottle (Soyber	an Mosa	ic Virus)					
Nemat	ode							
Soybea	nn Cyst Nematode (He	eterodera	glycines	Ichinohe)		2	003000	
0	race 1	0 rac	e 4	0 rac	e 9			
0	race 2	0 rac	e 5	1 rac	e 14 (former r. 4)			
1	race 3	0 rac	e 6	Otl	ner (<i>Please Specify</i>)	tandhire de Indreside		÷
0	Lance Nematode (H	oplolaim	us colum	bus Sher)				
0	Southern Root Knot	t Nemato	de (<i>Melo</i>	idogyne incognito	(Kofoid & White) Chi	itwood)		
0	Northern Root Knot	t Nemato	de (<i>Melo</i>	idogyne hapla Cl	nitwood)			
0	Peanut Root Knot N	ematode	(Meloido	ogyne arenaria (N	leal) Chitwood)			
0	Reniform Nematode	(Rotylen	chus ren	<i>iformus</i> Linwood	& Olivera)			
0	Javanese Nematode	(Meloido	gyne java	<i>mica</i> (Treub) Ch	itwood)			
	Other Nematode (Pla	ease Spe	cify)	to delice and the selection of				
C. PH	YSIOLOGICAL RES	PONSE	S	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Iron Chlorosis on Ca	alcareous	Soil					•
0	Phosphorus							
0	Boron							
0	Aluminum							
0	Salt							
0	Drought							
	Other (Please Specify	·)	- 		on the state of th			

D DISECTE DE ACTIVANO	A 37 / 77 / 3			
D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0 Mexican Bean Beetle (Epilachna va	arivestis Mulsant)			
0 Potato Leaf Hopper (Empoasca fal	bae (Harris))		2003	00017
Other (Please Specify)		-		
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
2 Metribuzin				
0 Bentazone				
1 Sulfonylurea				
2 Glyphosate				
1 Glufosinate				
0 Pendimethalin				
Other (Please Specify)	, same as a			
F. TRANSGENIC COMPOSITION				
Has the development of the Subject Variety If yes, please complete the following informa	included the insertion tion requests*. Use a	n or removal of genet additional pages if ne	ic material? X	YES NO
1. Please state the vector's name:	-		•	
 Please state the vector components: Please describe the genetic material succession. 	pessfully transferred i	into the Subject Veric	. 	
4. Please describe the insertion protocol:	cessiany transierieu	ano inc Subject Vark	·.y.	. *
* A literature citation(s) explaining the fo the "Transgenic Composition" portion of	ur information reque of this form.	sts above may be an a	cceptable alternat	ive to completion of
				•
				en e
U.S. Patent No. 5,776,760. Issue Date: July Company. Patent Application No. 484,274.	7, 1998. Inventor: 1	Barry, Gerard, and K	ishore, Ganesh. 🛭 A	Assignee: Monsanto
ABSTRACT: Genes encoding a glyphosate of transformed bacteria and plants which degrate herbicide.	oxidoreductase enzyn ade glyphosate herbio	ne are disclosed. The cide as well as crop pl	genes are useful in ants which are tol	n producing erant to glyphosate

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

200300017

H. COMMENTS

200300017

EXHIBIT D

ADDITIONAL DESCRIPTION OF INVENTION

SN71173 is a mid maturity group II variety with resistance to Roundup ^{un} herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including lodging resistance. In tests, it has beaten Pioneer 92B56 by 116 % overall, winning at 17 of 23 locations. It is adapted to the mid maturity group II growing areas of Illinois, South Dakota, Minnesota, Michigan, Nebraska, Iowa and Wisconsin. It has only average appearance.

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EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2	2421). The information is held
NAME OF APPLICANT(S)	confidential until the certificate is issued: 2. TEMPORARY DESIGNATION	1. VARIETY NAME
	OR EXPERIMENTAL NUMBER	I. VANIET IVANE
Monsanto Technology LLC	DAK2501A0R	SN71173
2. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
634 E. LincolnWay	515-232-7170	515-232-6905
Ames, IA 50010		
	7. PVPO NUMBER 2 0 0 3	00017
8. Does the applicant own all rights to the variety? Mark an "X" in t	he appropriate block	· · · · · · · · · · · · · · · · · · ·
If no, please explain.	пе арргоргате вюск.	YES X NO
9. Is the applicant (individual or company) a U.S. National or a U.S.	based company?	g
If no, give name of country		YES X NO
10. Is the applicant the original owner? If no, please answer one of the following: .		VEC Y NO
		YES X NO
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	nal(s)?
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of cour		nal(s)?
YES NO If no, give name of cour	ntry	
b. If the original rights to variety were owned by a company(ies	ntry s), is (are) the original owner(s) a U.S. ba	
YES NO If no, give name of cour	ntry s), is (are) the original owner(s) a U.S. ba	
b. If the original rights to variety were owned by a company(ies	ntry s), is (are) the original owner(s) a U.S. ba ntry	
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D. If the original rights to variety were owned by a company(ies YES NO If no, give name of count 1. Additional explanation on ownership (If needed, use the reverse Please Note:	ntry s), is (are) the original owner(s) a U.S. bantry of for extra space):	
b. If the original rights to variety were owned by a company(ies	ntry s), is (are) the original owner(s) a U.S. bantry for extra space): sees) who meet the following criteria: person must be a U.S. national, national	of a UPOV member country, or
D. If the original rights to variety were owned by a company(iest of the original rights to variety were owned by a company(iest of the original rights to variety were owned by a company(iest of the owners owned by the original breeder, that it is not the owners of the owners of the owners owned by the original breeder, that it is not the owners of the owners of the owners of the owners of the owners owned by the original breeder, that it is not the owners of the owners of the owners owned by the original breeder, that it is not the owners of the owners owners of the ow	ntry s), is (are) the original owner(s) a U.S. bathery of for extra space): sees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and spectored the original breeder(s), the company	of a UPOV member country, or sies.
b. If the original rights to variety were owned by a company(iese YES NO If no, give name of cour 1. Additional explanation on ownership (If needed, use the reverse Plant variety protection can only be afforded to the owners (not licer national of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a	ntry s), is (are) the original owner(s) a U.S. bantry of for extra space): sees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and specially over the original breeder(s), the company country which affords similar protection	of a UPOV member country, or cies. y must be U.S. based, owned by to nationals of the U.S. for the same

instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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